

UNUS #97-0029-UNI
Case No. F7371(V)

(A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO: 1)

(B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID NO: 2)

(D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-
PRO-GLN-LEU-X-LYS (SEQ ID NO: 4)

(C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO: 3)

(E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO: 5),
wherein X is any amino acid.

21. (Amended) A food product comprising a polypeptide having antifreeze activity comprising fragments (A-E) of the amino acid sequence in the following order in the polypeptide:

(A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO: 1)

(B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID NO: 2)

(D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-
PRO-GLN-LEU-X-LYS (SEQ ID NO: 4)

(C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO: 3)

(E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO: 5),
wherein the food product is a frozen confectionery product or a frozen vegetable with
the proviso that the food product is not a carrot, wherein X is any amino acid.

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23. (Twice amended) A food product comprising a polypeptide having antifreeze activity and having an amino acid sequence selected from the sequence as represented in SEQ ID No: 7 and isoforms and derivatives thereof which still possess antifreeze activity wherein the food product is a frozen confectionery product or a frozen vegetable with the proviso that the food product is not a carrot.